

SPACE TEST PROGRAM FLIGHT REQUEST	PREPARATION DATE (YYYYMMDD)	CLASSIFIED BY	DECLASSIFY ON
	<input type="checkbox"/> X IF REVISION		

PART I - REQUEST FOR SPACEFLIGHT

1. EXPERIMENT TITLE		2. SHORT TITLE	
3. EXPERIMENT NUMBER	4. PROJECT NUMBER	5. TASK NUMBER	6. PROGRAM ELEMENT NUMBER
7. PROJECT OFFICE	8. MANAGEMENT OFFICE		9. SPONSOR

10. PRINCIPAL INVESTIGATOR

a. NAME (Last, First, Middle Initial)	b. ACTIVITY	c. POSITION	
d. TELEPHONE NUMBER(S) (Include Area Code) COMMERCIAL DSN	e. SIGNATURE		f. DATE (YYYYMMDD)

11. STAFF APPROVAL

a. NAME (Last, First, Middle Initial)	b. ACTIVITY	c. POSITION	
d. TELEPHONE NUMBER(S) (Include Area Code) COMMERCIAL DSN	e. SIGNATURE		f. DATE (YYYYMMDD)

12. SPONSOR

a. NAME (Last, First, Middle Initial)	b. ACTIVITY	c. POSITION	
d. TELEPHONE NUMBER(S) (Include Area Code) COMMERCIAL DSN	e. SIGNATURE		f. DATE (YYYYMMDD)

13. PROJECT MANAGEMENT OFFICE

a. NAME (Last, First, Middle Initial)	b. ACTIVITY	c. POSITION	
d. TELEPHONE NUMBER(S) (Include Area Code) COMMERCIAL DSN	e. SIGNATURE		f. DATE (YYYYMMDD)

14. INTERMEDIATE ACTIVITY

a. NAME (Last, First, Middle Initial)	b. ACTIVITY	c. POSITION	
d. TELEPHONE NUMBER(S) (Include Area Code) COMMERCIAL DSN	e. SIGNATURE		f. DATE (YYYYMMDD)

15. DEPARTMENTAL APPROVAL

a. NAME (Last, First, Middle Initial)	b. ACTIVITY	c. POSITION	
d. TELEPHONE NUMBER(S) (Include Area Code) COMMERCIAL DSN	e. SIGNATURE		f. DATE (YYYYMMDD)

PREPARATION DATE (YYYYMMDD)	EXPERIMENT TITLE	EXPERIMENT NUMBER
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16. OBJECTIVE

17. RELEVANCE TO SPECIFIC DOD REQUIREMENTS

18. BACKGROUND

19. DESCRIPTION

PREPARATION DATE (YYYYMMDD)	EXPERIMENT TITLE	EXPERIMENT NUMBER
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20. PICTORIAL

21. ALTERNATIVES TO SPACEFLIGHT

22. FOLLOW-ON PLANS

PREPARATION DATE (YYYYMMDD)		EXPERIMENT TITLE			EXPERIMENT NUMBER			
PART IIA - TECHNICAL DETAILS: SPACE SHUTTLE SORTIES								
23. ORBITER SORTIE MODE				24. STANDARD SUPPORT HARDWARE DESIRED/FLIGHT OPTIONS				
<input type="checkbox"/> NOT APPLICABLE (Skip to Page 7)		<input type="checkbox"/> ACCEPTABLE		<input type="checkbox"/> MID-DECK LOCKER				
<input type="checkbox"/> PREFERRED		<input type="checkbox"/> REQUIRED		<input type="checkbox"/> OTHER (Specify)				
25. WEIGHT (kg)		26. PHYSICAL DIMENSIONS (cm)			27. TOTAL VOLUME (cc)			
a. TOTAL PAYLOAD	b. EXPENDABLES							
28. EXTENSIONS BEYOND BAY ENVELOPE?			29. POWER (W)			30. ENERGY (WH)	31. EXP. POWER (W)	
<input type="checkbox"/> YES	<input type="checkbox"/> NO		a. NOMINAL	b. MAX. POWER	c. STAND-BY			
32. TYPICAL DUTY CYCLE (% of operation)			33. MAXIMUM DUTY CYCLE (% of operation)			34. MISSION DURATION (Days)		
a. NOMINAL	b. MAX. POWER	c. STAND-BY	a. NOMINAL	b. MAX. POWER	c. STAND-BY	a. NOMINAL	b. MINIMUM	c. MAXIMUM
35. FLIGHT DATE (Quarter, Calendar Year)								
a. PREFERRED		b. LATEST		c. EARLIEST		d. REFLIGHT		
e. RATIONALE								
36. ORBITAL PARAMETERS								
a. APOGEE (km)			b. PERIGEE (km)			c. INCLINATION (Degrees)		
+	-		+	-		+	-	
d. ALTERNATE ORBITS (Acceptable, if primary orbit is unavailable)								
e. REMARKS								
37. ORBITER ORIENTATION REQUIREMENTS (Comment where applicable)								
a. X-AXIS			b. Y-AXIS			c. Z-AXIS		
d. OTHER REQUIREMENTS								
e. REMARKS								
38. STABILIZATION REQUIREMENTS (Pointing Accuracy (degree/pointing knowledge (arc-sec.)))								
a. LINE-OF-SIGHT			b. ROLL ABOUT LINE-OF-SIGHT			c. JITTER OR DRIFT CONTROL		
/			/			/		
d. EXPERIMENT PROVIDED POINTER								
e. REMARKS								

PREPARATION DATE (YYYYMMDD)	EXPERIMENT TITLE	EXPERIMENT NUMBER
39. MAJOR MOVEMENTS		
a. TRACK		
b. SLEW		
c. OTHER MOTIONS		
d. REMARKS		
40. ASTRONAUT PARTICIPATION		
a. TYPE		b. FUNCTION
<input type="checkbox"/>	MISSION SPECIALIST	<input type="checkbox"/> MONITORING
<input type="checkbox"/>	PAYLOAD SPECIALIST	<input type="checkbox"/> ANALYSIS
		<input type="checkbox"/> COMMAND AND CONTROL
		<input type="checkbox"/> OTHER (<i>Specify</i>)
c. ASTRONAUT DUTY CYCLE		
d. DESCRIPTION OF ASTRONAUT DUTIES		
41. GROUND SUPPORT REQUIREMENTS DURING FLIGHT		
42. EPHEMERIS REQUIREMENTS		
43. TELEMETRY AND DATA HANDLING		
a. DATA STORAGE (<i>Bits per orbit</i>)	b. DATA OUTPUT RATE TO SPACECRAFT (<i>bpa</i>)	c. REAL-TIME DATA REQUIREMENTS (<i>bpa</i>)
	NOMINAL MAXIMUM	<input type="checkbox"/> REAL-TIME DATA NOT REQUIRED
		<input type="checkbox"/> REAL-TIME DATA REQUIRED AT RATE:
d. SPECIAL REQUIREMENTS		
e. REMARKS		

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44. ON-BOARD PROCESSING *(Display and Control)*

a. NUMBER OF STANDARD DISPLAY FORMATS	b. TYPES OF FORMATS <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border: 1px solid black;"><input type="checkbox"/></td> <td style="border: 1px solid black;">ALPHA-NUMERIC STATUS</td> <td style="width:50%; border: 1px solid black;"><input type="checkbox"/></td> <td style="border: 1px solid black;">KEYBOARD</td> </tr> <tr> <td style="border: 1px solid black;"><input type="checkbox"/></td> <td style="border: 1px solid black;">HAND CONTROLLER</td> <td style="border: 1px solid black;"><input type="checkbox"/></td> <td style="border: 1px solid black;">OTHER <i>(Specify)</i></td> </tr> </table>	<input type="checkbox"/>	ALPHA-NUMERIC STATUS	<input type="checkbox"/>	KEYBOARD	<input type="checkbox"/>	HAND CONTROLLER	<input type="checkbox"/>	OTHER <i>(Specify)</i>
<input type="checkbox"/>	ALPHA-NUMERIC STATUS	<input type="checkbox"/>	KEYBOARD						
<input type="checkbox"/>	HAND CONTROLLER	<input type="checkbox"/>	OTHER <i>(Specify)</i>						

45. COMMANDS

a. NUMBER OF POWER COMMANDS	b. NUMBER OF SERIAL/DIGITAL COMMANDS
c. NUMBER OF DISCRETE COMMANDS	d. MAGNITUDE COMMAND WORD SIZE <i>(Bits)</i>
e. COMMAND STORAGE	

46. EXPERIMENT COMPLEMENT/PACKAGE DATA

ITEM a.	DIMENSIONS STOWED <i>(cm)</i> b.	DIMENSIONS DEPLOYED <i>(cm)</i> c.	WEIGHT <i>(kg)</i> d.	EJECTED? e.	RECOVERY? f.

g. OTHER PERTINENT DATA

h. DESIGN DRAWING SPECIFICATION STATUS

47. SPACE SHUTTLE SAFETY

a. POSSIBLE HAZARDS

RADIOACTIVE DEVICES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES <i>(If yes):</i> MATERIAL(S) _____	STRENGTH _____
HAZARDOUS MATERIALS	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES <i>(If yes):</i> MATERIAL(S) _____	_____
OTHER	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES <i>(If yes, specify)</i>	_____

b. DESCRIBE SAFETY COORDINATION ACTIVITIES WITH NASA TO DATE *(If any)*

c. OTHER REQUIREMENTS

PREPARATION DATE (YYYYMMDD)		EXPERIMENT TITLE				EXPERIMENT NUMBER		
PART IIB - TECHNICAL DETAILS: FREE-FLYER MODE								
48. FREE-FLYER MODE				49. EXPERIMENT CLASS				
<input type="checkbox"/> NOT APPLICABLE (Skip to Page 10)		<input type="checkbox"/> ACCEPTABLE		<input type="checkbox"/> EXPERIMENT ONLY		<input type="checkbox"/> PIGGYBACK PAYLOAD PREFERRED (Host)		
<input type="checkbox"/> PREFERRED		<input type="checkbox"/> REQUIRED		<input type="checkbox"/> COMPLETE SPACECRAFT				
50. WEIGHT (kg)					51. PHYSICAL DIMENSIONS (cm)			
a. TOTAL PAYLOAD		b. EXPENDABLES		c. SPACECRAFT (If provided)				
52. TOTAL VOLUME (cc)		53. POWER (W)			54. ENERGY (WH)		55. EXP. POWER (W)	
a. NOMINAL		b. MAX. POWER	c. STAND-BY					
56. TYPICAL DUTY CYCLE (% of operation)			57. MAXIMUM DUTY CYCLE (% of operation)			58. MISSION DURATION (Days)		
a. NOMINAL	b. MAX. POWER	c. STAND-BY	a. NOMINAL	b. MAX. POWER	c. STAND-BY	a. NOMINAL	b. MINIMUM	c. MAXIMUM
59. FLIGHT DATE (Quarter, Calendar Year)								
a. PREFERRED			b. LATEST			c. EARLIEST		
d. RATIONALE								
60. ORBITAL PARAMETERS								
a. APOGEE (km)			b. PERIGEE (km)			c. INCLINATION (Degrees)		
+ -			+ -			+ -		
d. RATIONALE								
e. ALTERNATE ORBITS (Acceptable, if primary orbit is unavailable)								
f. AXIS/ORBIT PLANE RESTRICTIONS								
61. STABILIZATION REQUIREMENTS (Pointing accuracy (degrees)/pointing knowledge (arc-sec.))								
a. STABILIZATION TYPE				b. ROLL		c. PITCH		
<input type="checkbox"/> SPIN		SPIN RATE _____		/		/		
<input type="checkbox"/> ANY		OTHER (Specify)		d. YAW		e. JITTER OR DRIFT		
<input type="checkbox"/> 3-AXLE								
f. OTHER REQUIREMENTS								
g. REMARKS								

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62. MAJOR MOVEMENTS <i>(Explain and provide rates)</i>		
a. TRACK		
b. SLEW		
c. OTHER MOTIONS		
d. REMARKS		
63. GROUND SUPPORT REQUIREMENTS DURING FLIGHT		
64. EPHEMERIS REQUIREMENTS		
65. TELEMETRY AND DATA HANDLING		
a. DATA STORAGE <i>(Bits per orbit)</i>	b. DATA OUTPUT RATE TO SPACECRAFT <i>(bpa)</i>	c. REAL-TIME DATA REQUIREMENTS <i>(bpa)</i>
	NOMINAL MAXIMUM	<input type="checkbox"/> REAL-TIME DATA NOT REQUIRED
		<input type="checkbox"/> REAL-TIME DATA REQUIRED AT RATE:
d. SPECIAL REQUIREMENTS		
e. REMARKS		
66. COMMANDS		
a. NUMBER OF POWER COMMANDS	b. NUMBER OF SERIAL/DIGITAL COMMANDS	
c. NUMBER OF DISCRETE COMMANDS	d. MAGNITUDE COMMAND WORD SIZE <i>(Bits)</i>	e. COMMAND STORAGE
f. REAL-TIME COMMAND PROGRAMMING REQUIREMENTS <i>(Describe)</i>		
67. POSSIBLE HAZARDS		
RADIOACTIVE DEVICES	<input type="checkbox"/> NO <input type="checkbox"/> YES <i>(If yes):</i> MATERIAL(S) _____	STRENGTH _____
HAZARDOUS MATERIALS	<input type="checkbox"/> NO <input type="checkbox"/> YES <i>(If yes):</i> MATERIAL(S) _____	_____
OTHER	<input type="checkbox"/> NO <input type="checkbox"/> YES <i>(If yes, specify)</i> _____	_____

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68. EXPERIMENT COMPLEMENT/PACKAGE DATA

ITEM a.	DIMENSIONS STOWED (cm) b.	DIMENSIONS DEPLOYED (cm) c.	WEIGHT (kg) d.

e. OTHER PERTINENT DATA

f. EXPERIMENT EQUIPMENT MOUNTING RESTRICTIONS

g. DESIGN DRAWING SPECIFICATION STATUS

69. OTHER REQUIREMENTS

PREPARATION DATE (YYYYMMDD)	EXPERIMENT TITLE	EXPERIMENT NUMBER
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PART III - PROGRAM/SECURITY INFORMATION

70. FUNDING STATUS		71. HARDWARE STATUS	
<input type="checkbox"/> TOTAL	<input type="checkbox"/> FLIGHT READY	<input type="checkbox"/> DESIGN	<input type="checkbox"/> CONCEPT
<input type="checkbox"/> PARTIAL	<input type="checkbox"/> UNDER CONSTRUCTION		
<input type="checkbox"/> UNFUNDED	<input type="checkbox"/> BREADBOARD		

72. DESIGN-FREEZE DATE	73. DELIVERY DATE
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74. FUNDING BREAKDOWN (<i>\$ Needed / \$ Secured</i>)				
ITEM a.	PRIOR FY FUNDS b.	CURRENT FY FUNDS c.	FUTURE FY FUNDS d.	TOTAL COST e.
PROTOTYPE	/	/	/	/
HARDWARE	/	/	/	/
STAFF COSTS	/	/	/	/
DATA REDUCTION	/	/	/	/
TOTAL	/	/	/	/

75. BUDGET//PROGRAM AUTHORIZATION NO.	76. CONTRACTOR RESPONSIBILITY
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77. LOCATION OF CONTRACT WORK	78. CONTRACT NO.	79. PLANNED CONTRACT OBLIGATION DATE
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80. COORDINATION		
a. NAME (<i>Last, First, Middle Initial</i>)	b. OFFICE SYMBOL	c. TELEPHONE (<i>Incl. area code</i>)
d. COORDINATION RESULTS		
e. NAME (<i>Last, First, Middle Initial</i>)	f. OFFICE SYMBOL	g. TELEPHONE (<i>Incl. area code</i>)
h. COORDINATION RESULTS		
i. COORDINATION SUMMARY		

81. PLAN FOR DATA PROCESSING AND DISSEMINATION OF RESULTS
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82. SECURITY INFORMATION (<i>State highest levels</i>)		
a. EXPERIMENT OBJECTIVES	b. TIMELINE	c. EXTERNAL VIEW
d. EXPERIMENT DATA	e. INTERNAL FEATURES	

f. OTHER CLASSIFIED ITEMS
